abcam

Product datasheet

Anti-Myelin PLP antibody [plpc 1] ab9311



★★★★★ <u>5 Abreviews</u> <u>14 References</u> 9 图像

概述

产**品名称** Anti-Myelin PLP抗体[plpc 1]

小鼠单**克隆抗体**[plpc 1] to Myelin PLP

宿主 Mouse

特异性 This antibody recognizes myelin proteolipid protein

经测试应用 适用于: WB, IHC-Fr, IHC-P, ICC/IF

不适用于: Flow Cyt (Intra)

种属反应性 与反应: Mouse, Rat, Human

免疫原 Synthetic peptide:

C-GRGTKF

, corresponding to amino acids 272-277 of Myelin PLP.

Run BLAST with
Run BLAST with

常规说明 This product was switched from a hybridoma to a recombinant production format on 27th October

2021.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

存储溶液 Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

纯**度** Protein A purified

 克隆
 单克隆

 克隆编号
 plpc 1

1

骨髓瘤Sp2/0同种型lgG2a轻链类型unknown

应用

The Abpromise guarantee Abpromise™承诺保证使用ab9311于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度:实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★ <u>(2)</u>	1/1000. Predicted molecular weight: 30 kDa.
IHC-Fr	★★★★★ (1)	1/25.
IHC-P		1/5000.
ICC/IF	★★★☆☆ (1)	1/25.

应用说明 Is unsuitable for Flow Cyt (Intra).

靶标

功能 This is the major myelin protein from the central nervous system. It plays an important role in the

formation or maintenance of the multilamellar structure of myelin.

疾病相关 Defects in PLP1 are the cause of leukodystrophy hypomyelinating type 1 (HLD1) [MIM:312080];

also known as Pelizaeus-Merzbacher disease. HLD1 is an X-linked recessive dysmyelinating disorder of the central nervous system in which myelin is not formed properly. It is characterized

clinically by nystagmus, spastic quadriplegia, ataxia, and developmental delay.

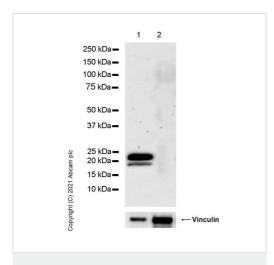
Defects in PLP1 are the cause of spastic paraplegia X-linked type 2 (SPG2) [MIM:312920]. SPG2 is characterized by spastic gait and hyperreflexia. In some patients, complicating features

include nystagmus, dysarthria, sensory disturbance, mental retardation, optic atrophy.

序列相似性 Belongs to the myelin proteolipid protein family.

细胞定位 Membrane.

图片



Western blot - Anti-Myelin PLP antibody [plpc 1] (ab9311)

All lanes : Anti-Myelin PLP antibody [plpc 1] (ab9311) at 1/1000 dilution

Lane 1 : Human cerebellum tissue lysate at 20 μ g with NFDM/TBST

Lane 2: Human liver tissue lysate at 40 µg with NFDM/TBST

Blocking peptides at 5 % per lane.

Secondary

All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

Predicted band size: 30 kDa

Observed band size: 20.23 kDa

Exposure time: 3 minutes

Samples are non-boiled as boiling may cause protein aggregates.

The molecular weight observed is consistent with what has been described in the literature (PMID: 9247276).

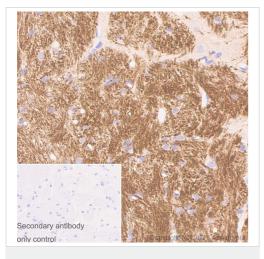
Negative control: liver (PMID: 2414013).



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Myelin PLP antibody [plpc 1] (ab9311)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labelling Myelin PLP with ab9311 at 1/5000 dilution, followed by secondary LeicaDS9800 (Bond™ Polymer Refine Detection), ready to use. Positive staining on human cerebrum is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is LeicaDS9800 (Bond™ Polymer Refine Detection), ready to use.

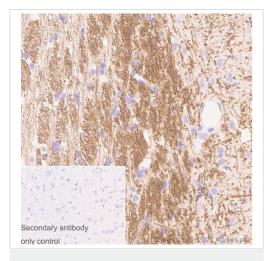
The section was incubated with ab9311 for 30 mins at room temperature and followed by mouse specific IgG antibody for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Myelin PLP antibody [plpc 1] (ab9311)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labelling Myelin PLP with ab9311 at 1/5000 dilution, followed by secondary LeicaDS9800 (Bond™ Polymer Refine Detection), ready to use. Positive staining on human cerebrum is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is LeicaDS9800 (Bond™ Polymer Refine Detection), ready to use.

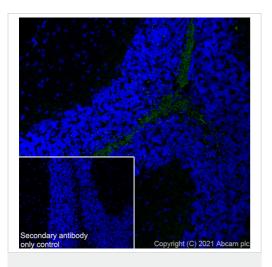
The section was incubated with ab9311 for 30 mins at room temperature and followed by mouse specific IgG antibody for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Myelin PLP antibody [plpc 1] (ab9311)

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labelling Myelin PLP with ab9311 at 1/5000 dilution, followed by secondary LeicaDS9800 (Bond™ Polymer Refine Detection), ready to use. Positive staining on human cerebrum is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is LeicaDS9800 (Bond™ Polymer Refine Detection), ready to use.

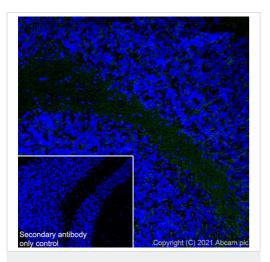
The section was incubated with ab9311 for 30 mins at room temperature and followed by mouse specific IgG antibody for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunohistochemistry (Frozen sections) - Anti-Myelin PLP antibody [plpc 1] (ab9311)

Immunohistochemical analysis of 4% PFA fixed 0.2% Triton X-100 permeabilized frozen Mouse cerebellum tissue labeling Myelin PLP with ab9311 at 1:25 (32.36 µg/ml) dilution followed by **ab150113** Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) secondary at 1:1000 dilution. The nuclear counterstain was DAPI (Blue). Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

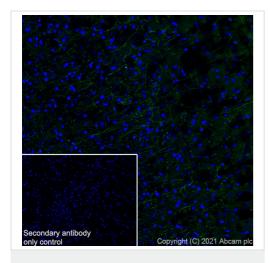
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was <u>ab150113</u> Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1:1000 dilution.



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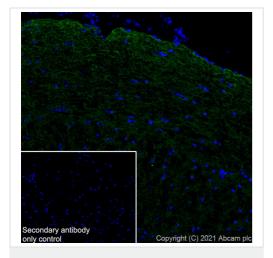
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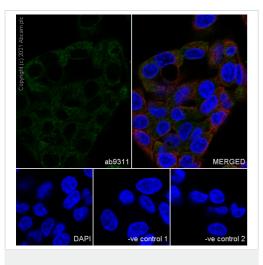
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Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was <u>ab150113</u> Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1:1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Myelin PLP antibody [plpc 1] (ab9311)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HepG2 cells labelling Myelin PLP with ab9311 at 1/25 dilution, followed by ab150113 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) antibody at 1:1000 dilution (Green). is observed. ab179513 Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is <u>ab150113</u> Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1:1000 dilution.

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